	Application No.	Applicant(s)
Notice of Allowability	10/696,632	HOVEL ET AL.
	Examiner	Art Unit
	Thanhha Pham	2813
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. X This communication is responsive to 03/04/2004 and interv	riew dated 03/26/2005 & 03/	<u> /27/2005</u> .
2. ⊠ The allowed claim(s) is/are <u>10-27</u> .		
3. $igotimes$ The drawings filed on <u>04 March 2004</u> are accepted by the $f B$	Examiner.	
4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitinformal part application (PTO-152) which give comply including changes required by the Notice of Draftsperson (a) including changes required by the Notice of Draftsperson (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the composition of the deposit attached Examiner's comment regarding REQUIREMENT for the deposit attached Examiner's commen	been received. been received in Application currents have been received of this communication to file ENT of this application. Itted. Note the attached EXA is reason(s) why the oath or it be submitted. on's Patent Drawing Review Amendment / Comment or it is Amendment / Comment or it is a factor of the header according to 37 CF is it of BIOLOGICAL MATE	n No If in this national stage application from the areply complying with the requirements AMINER'S AMENDMENT or NOTICE OF declaration is deficient. If (PTO-948) attached In the Office action of the drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date 01/16/2004 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview Super No./ Paper No./ 7. Examiner's 8. Examiner's 9. Other	formal Patent Application (PTO-152) Jummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance CAPL WANTEHEAD, JR. JEPERMSORY PATENT EXAMPLER TECHNOLOGY CENTER 2800

Application/Control Number: 10/696,632

Art Unit: 2813

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven Fischman on 05/26/2005 and 05/27/2005.

The application has been amended as follows:

- Cancel non-elected claims 1-9 and 28-35
- In claim 10,

line 8, after "structure" insert – for said source and drain metal electrodes – line 13, change "the entire Si surface" to – an entire Si surface of said Si substrate over which said buried oxide, said semiconductor layer, said gate insulator, said source and drain metal electrodes, and said gate electrode are located –

line 17, change "layers" to - layer -

In claim 12,

line 1, change "a protective layer" to - the protective layer -

In claim 13,

line 1, change "10" to - 12 -

In claim 20,

line 7, after "structure" insert – for said source and drain metal electrodes –

Application/Control Number: 10/696,632 Page 3

Art Unit: 2813

line 12, change "the entire Si surface" to – an entire Si surface of said Si substrate over which said buried oxide, said strained Si layer on said SiGe layer, said gate insulator, said source and drain metal electrodes, and said gate electrode are located –

In claim 22,

line 1, change "a protective layer" to - the protective layer -

Allowable Subject Matter

- 1. Claims 10-27 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: Recorded Prior Art fails to disclose or suggest the combination of the process steps for fabricating double gate FET test structures for electrical evaluation of a semiconductor layer on a buried oxide on a Si substrate as recited in the base claims 10 and 20 comprising: depositing source and drain metal electrodes on the gate insulator in geometric pattern including depositing a first metal electrode layer from the group consisting of Al, Er, Gd, Nd, Ti and Y followed by depositing a second metal layer from the group consisting of Ag, Al, Au, Cr, Cu, Mg, Ni and Pt to form an electrode structure for said source and drain metal electrodes; depositing a gate electrode between the source and drain metal electrode without contacting the source and drain metal electrodes; depositing a protective layer over an entire Si surface of said silicon substrate over which said buried oxide, said semiconductor layer, said gate insulator, said source and drain metal electrodes, and said gate electrode are located; creating individual isolated mesas of

Application/Control Number: 10/696,632 Page 4

Art Unit: 2813

the protective layer to form a protective mask layer on the Si surface with the source, drain and gate electrodes residing within the boundaries of the mesas; removing the gate insulator and the semiconductor layer/the strained Si and the SiGe layers from regions

- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhha Pham whose telephone number is (571) 272-1696. The examiner can normally be reached on Monday and Thursday 9:00AM 9:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thanhha Pham